

Recovery Plan Action Status

Plan Name: Beautiful Goetzea Recovery Plan

Plan Status: Final

Plan Date: 28-Apr-87

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

(287)

851-7297)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Beautiful goetzea (Goetzea elegans)	1	111	Protective status for Quebrada Bellaca.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Conservation Trust of Puerto Rico	Management: Land Use	Internal Administrative	Task Duration 5 yrs.
Beautiful goetzea (Goetzea elegans)	1	112	Cooperative agreements with landowners adjacent to Quebrada Bellaca.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Conservation Trust of Puerto Rico	Management: Land Use	Internal Administrative	Task Duration 2 yrs.
Beautiful goetzea (Goetzea elegans)	1	113	Exclude livestock from Quebrada Bellaca.	Unknown			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Depredation Control	Contract	
Beautiful goetzea (Goetzea elegans)	1	114	Cooperative agreement with PR Dept. of Transportation.	Not Started			Puerto Rico Department of Natural Resources, USFWS Regional Office 4, Puerto Rico Department of Transportation and Public Works, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Administrative	

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Beautiful goetzea (Goetzea elegans)	2	115	Determine ownership of other site	Not Started		FY 2011	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, Puerto Rico Department of Transportation and Public Works, U.S. Fish and Wildlife Service - Endangered Species Program	Other	Internal Field Assistance	
Beautiful goetzea (Goetzea elegans)	1	121	Monitor all known populations.	Ongoing Not Current	Prior to FY 1995	FY 2011	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Population Monitoring	Graduate Student, Internal Field Assistance	
Beautiful goetzea (Goetzea elegans)	1	122	Enforce Commonwealth regulations prohibiting take.	Ongoing Current	Prior to FY 1995	FY 2011	U.S. Fish and Wildlife Service, Law Enforcement Division, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Other: Law Enforcement	Internal Administrative	
Beautiful goetzea (Goetzea elegans)	2	123	Educate public on plant conservation values and regulations.	Ongoing Current	Prior to FY 1995	FY 2011	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Other: Information and Education	Internal Administrative	
Beautiful goetzea (Goetzea elegans)	2	21	Continue search for new populations.	Ongoing Current	Prior to FY 1995	FY 2011	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Demographic Studies	Internal Field Assistance, Internal Technical Assistance, Species Expert	
Beautiful goetzea (Goetzea elegans)	2	31	Define habitat requirements.	Complete	Prior to FY 1995	FY 1995 - FY 1999	Universities, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Habitat Requirements	Graduate Student, Species Expert	Task duration is 3-5 years.

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Beautiful goetzea (Goetzea elegans)	2	32	Determine reproductive biology and ecology.	Complete	Prior to FY 1995	FY 1995 - FY 1999	Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Habitat Requirements, Research: Habitat Status, Research: Other Information	Graduate Student, Species Expert	Costs would also include tasks 321, 322, 324, 325. Task duration is 3-5 years.
Beautiful goetzea (Goetzea elegans)	2	321	Assess periodicity of flowering and pollination mechanisms.	Partially Complete	Prior to FY 1995	FY 2011	Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	Task duration is 3-5 years.
Beautiful goetzea (Goetzea elegans)	2	322	Assess fruit production and seed dispersal.	Partially Complete	Prior to FY 1995	FY 2011	Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student	Task duration is 3-5 years.
Beautiful goetzea (Goetzea elegans)	2	323	Evaluate seed viability and germination requirements.	Complete	Prior to FY 1995	FY 2011	Botanical Gardens, Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student	Task duration is 3-5 years.
Beautiful goetzea (Goetzea elegans)	2	324	Evaluate seedling establishment and growth.	Partially Complete	Prior to FY 1995	FY 2011	Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student	Task duration is 3-5 years.
Beautiful goetzea (Goetzea elegans)	2	325	Evaluate role of vegetative regeneration.	Obsolete			Universities, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Other Information	Graduate Student	
Beautiful goetzea (Goetzea elegans)	2	33	Evaluate feasibility of artificial propagation.	Complete	FY 1995 - FY 1999	FY 2008	Botanical Gardens, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Contract	Costs would also include tasks 331 and 332.
Beautiful goetzea (Goetzea elegans)	2	331	Evaluate relative feasibility of propagation from seed vs. cuttings.	Obsolete			Botanical Gardens, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	

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Beautiful goetzea (Goetzea elegans)	2	332	Determine feasibility of ex situ production of seed and cuttings.	Obsolete			Botanical Gardens, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Propagation	Graduate Student, Species Expert	
Beautiful goetzea (Goetzea elegans)	3	34	Select sites for enhancement, reintroduction, or introduction of propagated material.	Ongoing Current	FY 1995 - FY 1999	FY 2011	U.S. Forest Service, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Management: Land Use	Internal Field Assistance	If former sites now on National Forest land are selected, USFS would become involved.
Beautiful goetzea (Goetzea elegans)	3	341	Assess habitat suitability.	Ongoing Current	FY 1995 - FY 1999	FY 2011	USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Habitat Status	Internal Field Assistance	
Beautiful goetzea (Goetzea elegans)	3	342	Assess site protection.	Ongoing Current	FY 1995 - FY 1999	FY 2011	U.S. Forest Service, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, Conservation Trust of Puerto Rico	Management: Land Use	Internal Field Assistance	
Beautiful goetzea (Goetzea elegans)	3	41	Determine number of populations and individuals necessary to perpetuate species' existence.	Not Started			Botanical Gardens, Universities, Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Population Assessment	Graduate Student, Internal Field Assistance, Species Expert	
Beautiful goetzea (Goetzea elegans)	3	42	Determine additional actions necessary to achieve recovery goals.	Ongoing Current	FY 1995 - FY 1999	FY 2011	Puerto Rico Department of Natural Resources, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program	Research: Other Information	Graduate Student, Internal Field Assistance, Species Expert	